
Equipment description

Each RPE system extends a Meridian 1 network loop to a maximum of 70 miles (112 km). Each loop serves up to a maximum of four peripheral equipment (PE) shelves.

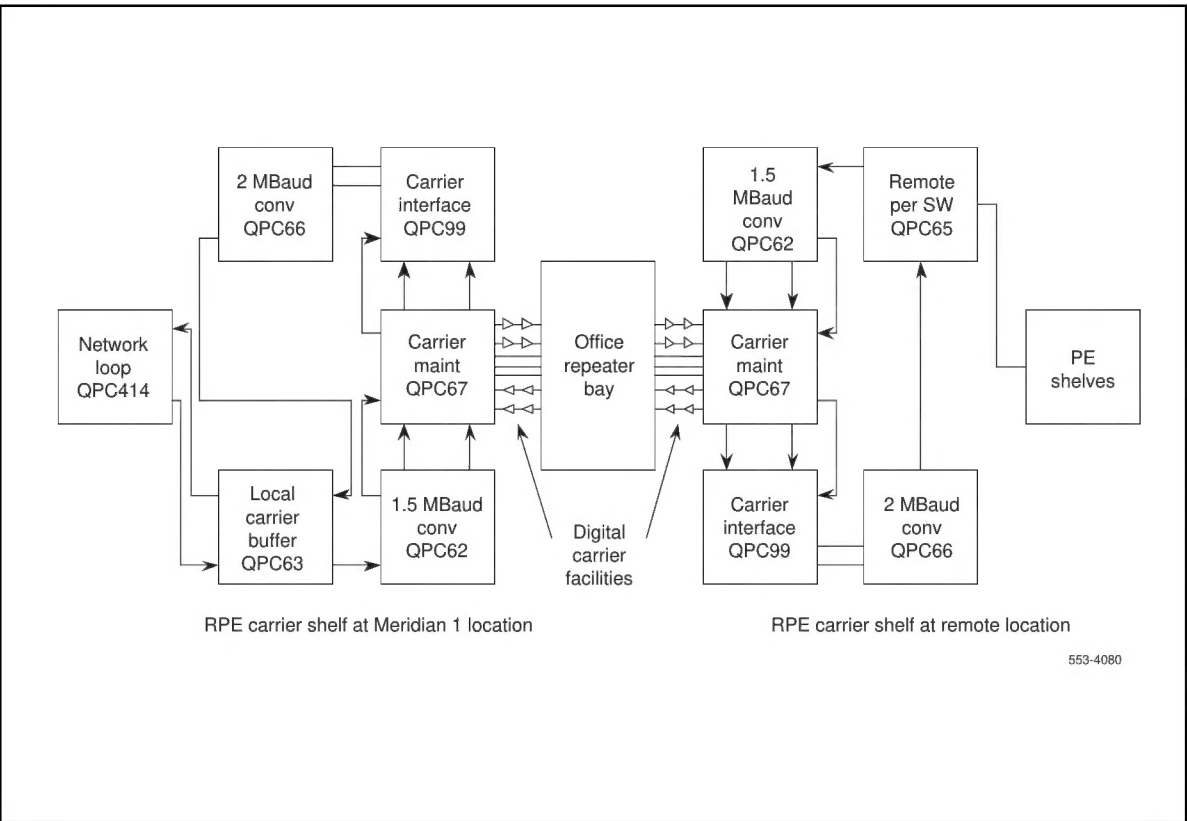
A network loop card connects to an RPE carrier shelf at the Meridian 1 equipment (local end), and the PE shelves connect to an RPE carrier shelf at the remote location (see [Figure 1](#)). The two carrier shelves interface with a 1.544 Mb/s multiplexed digital carrier system (such as LD-1) by means of four cable pairs for signaling and transmission. The two carrier shelves (one local, one remote) will serve two remote network loops.

An office repeater bay (ORB) is required in an RPE system if the remote PE equipment is more than 762 m (2500 ft) from the local Meridian 1 carrier shelf.

An ORB provides the following:

- span line monitoring
- error monitoring
- fault-locate system access
- order-wire termination with direct distance dialing (DDD) access
- line looping

Figure 1
RPE block diagram



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